

Mathematical Reflections

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In this investigation, you drew a character named Mug Wump on a coordinate grid. Then you used rules to transform Mug into other characters. Some of the characters you made were similar to Mug Wump and some were not. These questions will help you summarize what you learned.

Think about your answers to these questions. Discuss your ideas with other students and your teacher. Then write a summary of your findings in your notebook.

1. How did you decide which characters were similar to Mug Wump and which were *not* similar?
2. What types of rules produced figures similar to Mug Wump? Explain.
3. What types of rules produced figures that were *not* similar to Mug Wump? Explain.
4. When a figure is transformed to make a similar figure, some features change and some stay the same. What does the scale factor tell you about how the figure changes?